

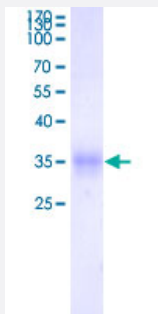
HuPro®

CD40 (Human) Recombinant Protein

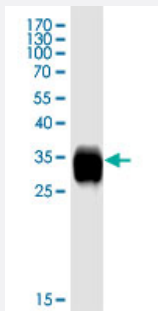
Catalog # H00000958-H02

Size 25 ug

Applications



SDS-PAGE Gel



Western Blot

Specification

Product Description

Purified CD40 (AAH12419.1 , 21 a.a. - 193 a.a.) human recombinant protein with His-Flag-StrepII tag at N-terminus expressed in human cells.

Transfected Cell Line

Human HEK293H cells

Sequence

EPPTACREKQYLINSQCCSLCQPGQKLVS DCTEFTETEC LPCGESEFLDTWNRETHCHQHKYCD
PNLGLRVQQKGTSETDTICTCEE GWHCTSEACESCVLHRSCSPGFGVKQIATGVSDTICEPCPV
GFFSNVSSAFEKCHPWTSCETKDLVVQQAGTNKTDVVCGPQDRLR

Host

Human

Theoretical MW (kDa)

24.31

Interspecies Antigen Sequence

Mouse (59); Rat (57)

Form

Liquid

Preparation MethodTransfection of pSuper-CD40 plasmid into HEK293H cell, and the expressed protein was purified by *Strep*-Tactin affinity column.**Purification***Strep*-Tactin affinity columns**Concentration**

≥ 10 ug/ml

Quality Control TestingSDS-PAGE and Western Blot
SDS-PAGE Gel
Western Blot**Storage Buffer**

100 mM Tris-HCl pH 8.0, 150 mM NaCl, 1 mM EDTA, and 5 mM desthiobiotin.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Enzyme-linked Immunoabsorbent Assay
- SDS-PAGE
- Protein Interaction

Gene Info — CD40

Entrez GeneID[958](#)**GeneBank Accession#**[BC012419.1](#)**Protein Accession#**[AAH12419.1](#)**Gene Name**

CD40

Gene Alias

Bp50, CDW40, MGC9013, TNFRSF5, p50

Gene Description

CD40 molecule, TNF receptor superfamily member 5

Omim ID [109535 606843](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor has been found to be essential in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations

B cell surface antigen CD40|B cell-associated molecule|CD40 antigen|CD40 antigen (TNF receptor superfamily member 5)|CD40 type II isoform|CD40L receptor|OTTHUMP00000031699|OTTHUMP00000031700|nerve growth factor receptor-related B-lymphocyte activation mol

Pathway

- [Allograft rejection](#)
- [Asthma](#)
- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Cytokine-cytokine receptor interaction](#)
- [Primary immunodeficiency](#)
- [Systemic lupus erythematosus](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Autoimmune Diseases](#)

- [Brain Ischemia](#)
- [Bronchiolitis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Colitis](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Disease Progression](#)
- [Drug Eruptions](#)
- [Edema](#)
- [Endometriosis](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hashimoto Disease](#)
- [Hematologic Diseases](#)
- [Hepatitis B](#)
- [Hodgkin Disease](#)
- [Hypertension](#)
- [Infant](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)

- [Lymphoproliferative Disorders](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Myasthenia Gravis](#)
- [Occupational Diseases](#)
- [Pemphigus](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rupture](#)
- [Stroke](#)
- [Thyroiditis](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Wegener Granulomatosis](#)
- [Werner syndrome](#)